



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/21 (09-04)  
Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number 10/575,991

Filing Date April 13, 2006

First Named Inventor Lital Alfonta

Group Art Unit Unassigned

Examiner Name Unassigned

Attorney Docket Number 54-000711US

## ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input checked="" type="checkbox"/> PTO-1449 Form	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input checked="" type="checkbox"/> Cited References	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment / Response	<input type="checkbox"/> Copy of PCT Search Report	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> Amendment and Request for Reconsideration	<input type="checkbox"/> Copy of EP Search Report	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Additional Enclosure(s) (please identify below):
<input checked="" type="checkbox"/> Receipt Acknowledgement Postcard	<input type="checkbox"/> Terminal Disclaimer	
<input checked="" type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Small Entity Statement	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	<b>Authorization to Charge Deposit Account</b> Please charge Deposit Account No. 50-0893 for any additional fees associated with this paper or during the pendency of this application, including any extensions of time for consideration of the documents enclosed:	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	Remarks	

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Edward J. DesJardins, Ph.D., Reg. No. 51,162, Quine Intellectual Property Law Group, P.C.
Signature	
Date	9.29.06

## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

Typed or printed name Kimberly Cheung

Signature

Date

October 3, 2006



I hereby certify that this correspondence is being deposited with the United States Postal Service first class mail in an envelope addressed to:  
Commissioner for Patents, P.O. Box 1450  
Alexandria, VA 22313-1450, on October 3, 2006

QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C.

By Kimberly Cheung  
Kimberly Cheung

Attorney Docket No. 54-000711US  
Client Ref. No. 1009.1 US / NOV0608P  
Novartis Ref. No. DC/4-33965/SCR

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Lital Alfonta, et al.

Application No.: 10/575,991

Filed: April 13, 2006

For: SITE-SPECIFIC INCORPORATION  
OF REDOX ACTIVE AMINO ACIDS  
INTO PROTEINS

Confirmation No.: Not yet provided

Examiner: Unassigned

Art Unit: Unassigned

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR § 1.97 and  
§ 1.98

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. Copies of the cited US Patent applications and US Publications have not been enclosed because they are no longer required by the office for submission. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action on the merits per 37 CFR 1.97(b)(3). However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 50-0893. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

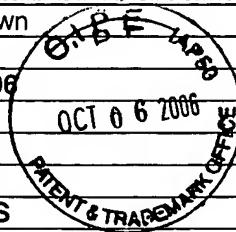
Respectfully submitted,



Edward J. DesJardins, Ph.D.  
Reg. No. 51,162

QUINE INTELLECTUAL PROPERTY LAW GROUP, P.C.  
P.O. BOX 458  
Alameda, CA 94501  
(510) 337-7871  
Fax (510) 337-7877

Substitute for form 1449A-B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		Complete if Known	
		Application Number	10/575,991
		Filing Date	April 13, 2006
		First Named Inventor	Lital Alfonta
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
		Attorney Docket Number	54-000711US
		Date Submitted	



U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
1	2003-0082575	A1		Schultz et al.	05-01-2003	
2	2003-0108885	A1		Schultz et al.	06-12-2003	

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
3	WO	2002/085923	A2	The Scripps Research Institute	10-31-2002			
4	WO	2002/086075	A2	The Scripps Research Institute	10-31-2002			
5	WO	2004/035605	A2	The Scripps Research Institute	04-29-2004			
6	WO	2004/035743	A2	The Scripps Research Institute	04-29-2004			
7	WO	2004/058946	A2	The Scripps Research Institute	07-15-2004			
8	WO	2004/094593	A2	The Scripps Research Institute	11-04-2004			
9	WO	2005/003294	A2	The Scripps Research Institute	01-13-2005			
10	WO	2005/007624	A2	The Scripps Research Institute	01-27-2005			
11	WO	2005/007870	A2	The Scripps Research Institute	01-27-2005			
12	WO	2005/019415	A2	The Scripps Research Institute	03-03-2005			

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T
	13	CHIN ET AL. (2003) "An Expanded Eukaryotic Genetic Code." <i>Science</i> , 301: 964-967.				

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A-B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	10/575,991
		Filing Date	April 13, 2006
		First Named Inventor	Lital Alfonta
		Group Art Unit	Unassigned
		Examiner Name	Unassigned
		Attorney Docket Number	54-000711US
		Date Submitted	

14	FENG ET AL. (2003) "Expanding tRNA recognition of a tRNA synthetase by a single amino acid change." <i>Proceedings of the National Academy of Sciences USA</i> , 100(10): 5676-5681.	
15	FORSTER ET AL. (2003) "Programming peptidomimetic synthetases by translating genetic codes designed <i>de novo</i> ." <i>Proceedings of the National Academy of Sciences USA</i> , 100(11): 6353-6357.	
16	FRANCKLYN ET AL. (2002) "Aminoacyl-tRNA synthetases: Versatile players in the changing theater of translation." <i>RNA</i> , 8: 1363-1372.	
17	IBBA (1996) "Strategies for in vitro and in vivo translation with non-natural amino acids." <i>Biotechnology and Genetic Engineering Reviews</i> , 13: 197-216.	
18	KIGA ET AL. (2002) "An engineered Escherichia coli tyrosyl-tRNA synthetase for site-specific incorporation of an unnatural amino acid into proteins in eukaryotic translation and its application in a wheat germ cell-free system." <i>Proceedings of the National Academy of Sciences USA</i> , 99(15) : 9715-9723.	
19	KOWAL ET AL. (2001) "Twenty-first aminoacyl-tRNA synthetase-suppressor tRNA pairs for possible use in site-specific incorporation of amino acid analogues into proteins in eukaryotes and in eubacteria." <i>Proceedings of the National Academy of Sciences USA</i> , 98(5): 2268-2273.	
20	LIU AND SCHULTZ (1999) "Progress toward the evolution of an organism with an expanded genetic code." <i>Proceedings of the National Academy of Sciences USA</i> , 96: 4780-4758.	
21	OHNO ET AL. (1998) "Co-Expression of Yeast Amber Suppressor tRNA <sup>tyr</sup> and Synthetase in Escherichia coli: Possibility to Expand the Genetic Code." <i>J. Biochem</i> 124(6):1065-1068.	
22	WANG AND SCHULTZ (2001) "A general approach for the generation of orthogonal tRNAs." <i>Chemistry and Biology</i> , 8: 883-890.	
23	WANG ET AL. (2000) "A New Functional Suppressor tRNA/Aminoacyl-tRNA Synthetase Pair for the in Vivo Incorporation of Unnatural Amino Acids into Proteins." <i>Journal of the American Chemistry Society</i> , 122: 5010-5011.	
24	WANG ET AL. (2001) "Expanding the Genetic Code of Escherichia coli." <i>Science</i> , 292: 489-500.	
25	ZHANG ET AL. (2002) "The Selective Incorporation of Alkenes into Proteins in Escherichia coli." <i>Angewandte Chemie, International Edition</i> , 41: 2840-2842.	
26	ZHANG ET AL. (2003) "A New Strategy for the Site-Specific Modification of Proteins in Vivo." <i>Biochemistry</i> , 42: 6735-6746.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.